

### **ABSTRACT OF THE INVENTION**

Two- or three-dimension assembled structures of carbon tubes and method for making the same are disclosed. Natural or synthetic fibers are first coated with a thermally stable coating material to form a coating layer over the fibers. Such coated  
5 fibers are then assembled into a desired assembled matrix, following by the treatment with an agent to enhance the binding interactions among the coated fibers within the assembled matrix. Such bound and assembled matrix of coated fibers is then employed for making the desired two- or three-dimension assembled structure of hollow carbon tubes, by removing the fibers and carbonizing the coating layers together with the residue  
10 of the fibers (if there are any). The removing treatment and carbonization treatment can be proceeded sequentially or concurrently.